BS ISO 12817:2025

BSI Standards Publication

Fibre-reinforced plastic composites — Determination of open-hole compression strength

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National foreword

This British Standard is the UK implementation of ISO 12817:2025. Together with ISO 12817:2025, it supersedes BS ISO 12817:2013 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/42, Fibre reinforced thermosetting plastics and prepregs.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Foreword

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The document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 13, *Composites and reinforcement fibres*.

This second edition cancels and replaces the first edition (ISO 12817:2013), which has been technically revised.

The main changes are as follows:

— the measurement of the roundness of the hole has been added;

— the dimensions of the test specimens for method 2 has been corrected;

— the preliminary loading has been modified;

— the loading procedure has been added;

— the failure mode has been refined, and the figure of typical failure modes has been changed;

— the roundness of the hole in the test reports has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

In preparing this document, reference has been made to other similar open-hole compression methods (JIS K 7093[1], ASTM D6484/D6484M-09[2]) and related methods, i.e. open-hole tension in ASTM D5766/D5766M6[3] and pin-bearing in ISO 12815[4].

The scope covers all current and future fibre-reinforced plastic composites meeting the requirements of this document. This document incorporates three methods that have different suitability and do not necessarily yield identical properties. All the methods use the maximum load to define the open-hole compressive strength.

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